

PTO/SB/08A (08-03)

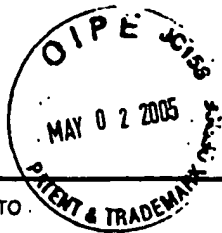
<b>Substitute for form 1449A/PTO</b>  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (use as many sheets as necessary)		<b>Complete If Known</b>			
		Application Number	09/264,547		
		Filing Date	March 8, 1999		
		First Named Inventor	JONES, TIMOTHY N.		
		Art Unit	3732		
Examiner Name	WILSON, J.				
Sheet	1	of	9	Attorney Docket Number	018563-006000US

U.S. PATENT DOCUMENTS+					
Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number Kind Code <sup>2</sup> (if known)			

FOREIGN PATENT DOCUMENTS								
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		Country Code <sup>3</sup>	Number <sup>4</sup>	Kind Code <sup>5</sup> (if known)				
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	5	EP	0541500	A1	06-12-1998	Nobelpharma AB		<input type="checkbox"/>
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	8	FR	2652256	A1	03-29-1991	Jourda		<input checked="" type="checkbox"/>
	9	FR	2369828	A1	06-02-1978	Suyehiro		<input checked="" type="checkbox"/>
	10	WO	90/08512	A1	08-09-1990	Dolphin Imaging Systems		<input type="checkbox"/>
	11	WO	91/04713	A1	04-18-1991	Jourda et al.		<input type="checkbox"/>
	12	WO	94/10935	A1	05-26-1994	Ormco Corporation		<input type="checkbox"/>
	13	WO	98/44865	A1	10-15-1998	Nobel Biocare		<input type="checkbox"/>
	14	WO	98/58596	A1	12-30-1998	Align Technology		<input type="checkbox"/>

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ju	15	ALEXANDER et al., "The DigiGraph Work Station Part 2, Clinical Management," JCO (July 1990), pp. 402-407.		
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	27	BERNARD et al., "Computerized Diagnosis in Orthodontics for Epidemiological Studies: A Progress Report", Abstracts of Papers, Journal of Dental Research; Vol. 67, Special Issue March 9-13, 1988, p.169.		
ju	28	BHATIA et al., "A Computer-Aided Design for Orthognathic Surgery," British Journal of Oral and Maxillofacial Surgery, Vol. 22 (1984), pp. 237-253.		

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JW	42	CROOKS, "CAD/CAM Comes to USC," <i>USC Dentistry</i> , (Spring 1990) pp. 14-17.	

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<i>ju</i>	43	CURETON, "Correcting Malaligned Mandibular Incisors With Removable Retainers" <i>J. Clin. Orthod.</i> , 30:390-395, 1996.	
	44	CURRY et al., "Integrated Three-Dimensional Craniofacial Mapping at the Craniofacial Research Instrumentation Laboratory/University of the Pacific," <i>Seminars in Orthodontics</i> , Vol. 7, No. 4 (Dec. 2001), pp. 258-265.	
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	52	DURET, "Vers une prothese informatisee," (English translation also attached), <i>Tonus</i> , vol. 75, (Nov. 15, 1985), pp. 55-57.	
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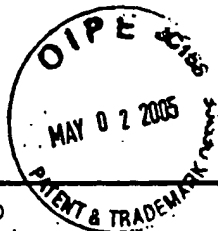
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	59	GIM-ALDENT Deutschland, "Das DUX System-Die Technik" 2 pages total.	
JW	60	GRAYSON, "New Methods for Three Dimensional Analysis of Craniofacial Deformity," Symposium: Computerized Facial Imaging in Oral and Maxillofacial Surgery Presented on September 13, 1990, AAOMS 72nd Annual Meeting and Scientific Sessions, Sept. 13, 1990, New Orleans, <i>Journal of Oral and Maxillofacial Surgery</i> , Vol. 48, no. 8, Supp. 1, August 1990, p. 5-6.	
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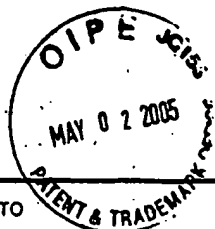
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gw	74	KLEEMANN et al., "The Speed Positioner" <i>J. Clin. Orthod.</i> , 30:673-680, 1996.		
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	83	MORMANN et al., "Marginal Adaptation von adhasiven Porzellaninlays in vitro," <i>Schwizerische Monatsschrift fur Zahnmedizin</i> , Vol. 85 (1985), p. 1118-1129.		
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	87	PINKHAM, "'Foolish' Concept Propels Technology," <i>Dentist</i> , Jan./Feb. 1989, 3 pages total.		
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gw	89	PONITZ, "Invisible Retainers", <i>Am. J. Orthodontics</i> , Vol. 59, No. 3, March 1971, pp. 266-272.		

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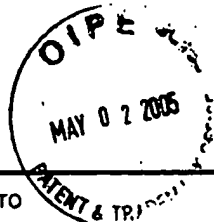
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<i>Jan</i>	90	Procera Research Projects, <i>PROCERA Research Projects 1993</i> — Abstract Collection, 1993, pp. 3-24.	
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	93	REKOW, "Computer-Aided Design and Manufacturing in Dentistry: A Review of the State of the Art," <i>The Journal of Prosthetic Dentistry</i> , Vol. 58, No. 4 (Oct. 1987), pp. 512-516.	
	94	REKOW, "Dental CAD-CAM Systems: What is the State of the Art?" <i>Journal of the American Dental Assoc.</i> , Vol. 122 (1991), pp. 43-48.	
	95	REKOW, "Feasibility of an Automated System for Production of "Dental Restorations," PhD Thesis, Univ. of Minnesota, Nov. 1988, 244 pages total.	
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	100	SCHELLHAS et al., "Three-Dimensional Computed Tomography in Maxillofacial Surgical Planning," <i>Arch Otolaryngol Head Neck Surg.</i> Vol. 114 (April 1988), pp. 438-442.	
<i>ju</i>	101	SHILLIDAY, "Minimizing finishing problems with the mini-positioner" <i>Am. J. Orthod.</i> 59:596-599, 1971	
	102	<del>Siemens, "CEREC - Computer-Reconstruction," "High Tech in der Zahnmedizin, 14 page total</del>	
<i>ju</i>	103	Sirona Dental Systems GmbH, CEREC 3D, Manuel utilisateur, Version 2.0X (in French), 2003, 114 pages total.	
<i>ju</i>	104	STOLL et al., "Computer-aided Technologies in Dentistry" (Article Summary in English, article in German), <i>Dtsch Zahnärztl Z</i> 45, 314-322, 1990.	

Examiner Signature	<i>John Wilson</i>	Date Considered	9/7/05
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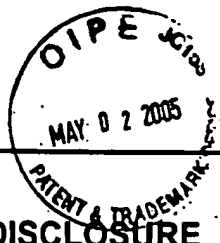
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		Application Number	09/264,547		
		Filing Date	March 8, 1999		
		First Named Inventor	JONES, TIMOTHY N.		
		Art Unit	3732		
		Examiner Name	WILSON, J.		
Sheet	8	of	9	Attorney Docket Number	018563-006000US

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials *	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
JW	105	U.S. Department of Commerce, National Technical Information Service, "Automated Crown Replication Using Solid Photography SM," Solid Photography Inc. Melville NY, October 1977, 20 pages total.	
	108	U.S. Department of Commerce, National Technical Information Service, "Holodontography: An Introduction to Dental Laser Holography," School of Aerospace Medicine Brooks AFB Tex, March 1973, 37 pages total.	
	107	U.S. Provisional Patent Application No. 60/050342, filed on June 20, 1997, 41 pages total.	
	108	VAN DER LINDEN et al., "Three-Dimensional Analysis of Dental Casts by Means of the Optocom," <i>J Dent Res</i> , July-August 1972, Vol. 51, No. 4, p. 1100.	
	109	VAN DER LINDEN, "A New Method to Determine Tooth Positions and Dental Arch Dimensions," July-August 1972, p. 1104.	
	110	VAN DER ZEL, "Ceramic-fused-to-metal Restorations with a New CAD/CAM System," <i>Quintessence International</i> , vol. 24(11) (1993), pp. 769-778.	
	111	VÁRADY et al., "Reverse engineering of geometric models—an introduction. Computer-Aided Design, 29 (4):255-268, 1997.	
	112	WARUNEK et al., "Clinical use of silicone elastomer appliances" <i>JCO</i> , MH (10):694-700, 1989.	
	113	WARUNEK et al., "Physical And Mechanical Properties of Elastomers In Orthodontic Positioners" <i>Am. J. Orthod. Dentofac. Orthop.</i> , 95:388-400, 1989.	
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	115	WILLIAMS, "Dentistry and CAD/CAM: Another French Revolution," <i>Journal of Dental Practice Admin.</i> , Jan/March 1987, pp. 2-5.	
JW	116	WILLIAMS, "The Switzerland and Minnesota Developments in CAD/CAM," <i>Journal of Dental Practice Admin.</i> , pp. 50-55, April/June 1987.	
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PTO/SB/08B (08-03)

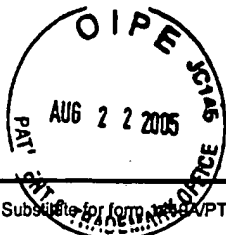
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JW	119	YAMAMOTO et al., "Optical Measurement of Dental Cast Profile and Application to Analysis Of Three-Dimensional Tooth Movement in Orthodontics," <i>Frontiers in Med. and Biol. Eng'g</i> , Vol. 1, No. 2 (1988), pp. 119-130.	

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U.S. PATENT DOCUMENTS+					
Examiner Initials*	Cite No. <sup>1</sup>	Document Number Number Kind Code <sup>2</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
JW	1	3,407,500	10-29-1968	Kesling	
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	3	3,922,786	12-02-1975	Lavin	
	4	3,983,628	10-05-1976	Acevedo	
	5	4,324,546	04-13-1982	Heitlinger et al.	
	6	4,324,547	04-13-1982	Arcan et al.	
	7	4,500,294	02-19-1985	Lewis	
	8	4,526,540	07-02-1985	Dellinger	
	9	4,575,330	03-11-1986	Hull	
	10	4,591,341	05-27-1986	Andrews	
	11	4,609,349	09-02-1986	Cain	
	12	4,664,626	05-12-1987	Kesling	
	13	4,676,747	06-30-1987	Kesling	
	14	4,836,778	06-06-1989	Baumrind et al.	
	15	4,850,865	07-25-1989	Napolitano	
	16	4,877,398	10-31-1989	Kesling	
	17	4,880,380	11-14-1989	Martz	
	18	4,889,238	12-26-1989	Batchelor	
	19	4,890,608	01-02-1990	Steer	
	20	4,935,635	06-19-1990	O'Harra,	
	21	4,941,826	07-17-1990	Loran et al.	
	22	4,983,334	01-08-1991	Adell	
	23	5,125,832	06-30-1992	Kesling	
	24	5,145,364	09-08-1992	Martz et al.	
	25	5,176,517	01-05-1993	Truax	
	26	5,440,326	08-08-1995	Quinn	
	27	5,528,735	06-18-1996	Strasnick et al.	
	28	5,645,420	07-08-1997	Bergersen	
	29	5,692,894	12-02-1997	Schwartz et al.	
	30	5,725,378	03-10-1998	Wang	
	31	5,823,778	10-20-1998	Schmitt et.al.	
	32	5,848,115	12-08-1998	Little et al.	
	33	5,857,853	01-12-1999	van Nifterick et al.	
	34	5,866,058	02-02-1999	Batchelder et al.	
	35	5,880,961	03-09-1999	Crump	
	36	5,880,962	03-09-1999	Andersson et al.	
	37	5,934,288	08-10-1999	Avila et al.	
	38	5,957,686	09-28-1999	Anthony	
	39	5,964,587	10-12-1999	Sato	
	40	5,971,754	10-26-1999	Sondhi et al.	
	41	6,015,289	01-18-2000	Andreiko et al.	
Examiner Signature	John J. Wilson		Date Considered	9/7/05	

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			Application Number	09/264,547	
			Filing Date	March 8, 1999	
			First Named Inventor	JONES, TIMOTHY N.	
			Art Unit	3732	
Examiner Name	John J. Wilson				
Sheet	2	of	5	Attorney Docket Number	018563-006000US

U.S. PATENT DOCUMENTS+						
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9w	42	6,044,309		03-28-2000	Honda	
	43	6,049,743		04-11-2000	Baba	
	44	6,062,861		05-16-2000	Andersson	
	45	6,068,482		05-30-2000	Snow	
	46	6,099,314		08-08-2000	Kopelman et al.	
	47	6,123,544		09-26-2000	Cleary	
	48	6,152,731		11-28-2000	Jordan et al.	
	49	6,183,248		02-06-2001	Chishti et al.	
	50	6,190,165		02-20-2001	Andreiko et al.	
	51	6,217,334		04-17-2001	Hultgren	
	52	6,244,861		06-12-2001	Andreiko et al.	
	53	6,309,215		10-30-2001	Phan et al.	
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	58	6,398,548		06-04-2002	Muhammad et al.	
	59	6,524,101		02-25-2003	Phan et al.	
	60	6,554,611		04-29-2003	Chishti et al.	
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62		RE 35169		03-05-1996	Lemchen et al.	

FOREIGN PATENT DOCUMENTS								
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60563413 v1

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		Country Code <sup>3</sup>	Number <sup>4</sup>	Kind Code <sup>5</sup> (if known)				
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		First Named Inventor	JONES, TIMOTHY N.		
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JW	76	ANDREWS, <i>The Six Keys to Optimal Occlusion Straight Wire</i> , Chapter 3, pp 13-24. <i>Prior to 1954</i>	
JW	77	BERNARD et al., "Computerized Diagnosis in Orthodontics for Epidemiological Studies: A Progress Report, Paper presented at International Association for Dental Research 66th General Session, March 9-13, 1988, Montreal, Canada. The abstract is published in <i>J Dental Res Special Issue</i> Vol. 67, p. 169.	
JW	78	CARDINAL INDUSTRIAL FINISHES, Powder Coatings information posted at <a href="http://www.cardinalpaint.com">http://www.cardinalpaint.com</a> on Aug. 25, 2000, 2 pages total.	
JW	79	DENT-X posted at <a href="http://www.dent-x.com/DentSim.htm">http://www.dent-x.com/DentSim.htm</a> . 09/24/98, 6 pages total.	
JW	80	DOYLE, Digital Dentistry, <i>Computer Graphics World</i> , Oct. 2000 pp. 50-52, 54.	
JW	81	FÜTTERLING et al., "Automated Finite Element Modeling of a Human Mandible with Dental Implants," WSCG '98 -Conference Program, retrieved from the Internet: << <a href="http://wscg.zcu.cz/wscg98/papers98/Strasser_98.pdf">http://wscg.zcu.cz/wscg98/papers98/Strasser_98.pdf</a> >>, 8 pages total.	
JW	82	GOTTLEIB et al., "JCO Interviews Dr. James A. McNamara, Jr., on the Frankel Appliance: Part 2: Clinical Management," <i>Journal of Clinical Orthodontics</i> , Vol. 16, No. 6, (June 1982) pp. 390-407	
JW	83	HEAVEN et al., Computer-based Image Analysis of Artificial Root Surface Caries, Abstracts of Papers, <i>Journal of Dental Research</i> , Vol. 70, April 17-21, 1991, p. 528.	
JW	84	HOJJATIE et al., "Three-Dimensional Finite Element Analysis of Glass-Ceramic Dental Crowns," <i>J Biomech.</i> (1990) Vol. 23, No. 11, pp.1157-1166.	
JW	85	KUNII et al., Articulation Simulation for an Intelligent Dental Care System, <i>Displays</i> (1994) 15:181-188.	
JW	86	MANETTI et al., Computer-aided Cefalometry and New Mechanics in Orthodontics (Article Summary in English, article in German), <i>Fortschr. Kieferorthop.</i> 44, 370-376 (Nr. 5), 1983	
	87	TRU-TAIN ORTHODONTIC & DENTAL SUPPLIES, Product Brochure, Rochester, Minnesota 55902, 16 pages total.	
JW	88	PROFFIT et al, <i>Contemporary Orthodontics</i> (Second Ed.) Chapter 15, Mosby Inc, (October 1992 ), pp 470-533	
JW	89	RAINTREE ESSIX & ARS MATERIALS, INC., Raintree Essix, Technical Magazine Table of contents and Essix Appliances, <a href="http://www.essix.com/magazine/default.html">http:// www.essix.com/magazine/default.html</a> Aug. 13, 1997, 7 pages.	

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<i>JW</i>	90	REDMOND et al. Clinical Implications of Digital Orthodontics, <i>Am. J. Orthodont. Dentofacial Orthopedics</i> , Vol. 117 No. 2 (2001), pp. 240-242.	
<i>JW</i>	91	REKOW et al., "CAD/CAM for Dental Restorations - Some of the Curious Challenges," <i>IEEE Transactions on Biomedical Engineering</i> , (April 1991) Vol. 38, No. 4, pp. 344-345.	
<i>JW</i>	92	REKOW et al., "Comparison of Three Data Acquisition Techniques for 3-D Tooth Surface Mapping," <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society</i> , (1991) Vol. 13, No. 1, pp. 344-345.	
<i>JW</i>	93	SCHROEDER et al., Eds. The Visual Toolkit, Prentice Hall PTR, New Jersey (1998) Chapters 6, 8 & 9, (pages 153-210, 309-354, and 355-428, respectively).	
<i>JW</i>	94	SINCLAIR, "The Readers' Corner," <i>Journal of Clinical Orthodontics</i> , Vol. 26, No. 6, (June 1992) pp. 369-372	
<i>JW</i>	95	VARADY et al., Reverse Engineering Of Geometric Models—An Introduction, <i>Computer-Aided Design</i> , 29 (4):255-268, 1997.	

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